

OPINION 643

IDOTEA FABRICIUS, 1798, AND *MESIDOTEA* RICHARDSON, 1905
(CRUSTACEA, DECAPODA); VALIDATION UNDER THE PLENARY
POWERS

RULING.—(1) Under the plenary powers :

- (a) the generic name *Idotea* Weber, 1795, is hereby suppressed for the purposes of both the Law of Priority and the Law of Homonymy ;
- (b) the following names are hereby suppressed for the purposes of the Law of Priority but not for those of the Law of Homonymy :
 - (i) the specific name *marinus* Linnaeus, 1758, as published in the binomen *Oniscus marinus* ;
 - (ii) the generic name *Saduria* Adams, 1852 ;
 - (iii) the generic name *Idotaega* Lockington, 1877 ;
- (c) all designations of type-species for the genus *Idotea* Fabricius, 1798, made prior to the present Ruling are hereby set aside and the nominal species *Cymothoa emarginata* Fabricius, 1793, is hereby designated to be the type-species of that genus.

(2) The following generic names are hereby placed on the Official List of Generic Names in Zoology with the Name Numbers specified :

- (a) *Emerita* Scopoli, 1777 (gender : feminine), type-species, by subsequent monotypy, *Cancer emeritus* Linnaeus, 1767 (Name No. 1496) ;
- (b) *Hippa* J. C. Fabricius, 1787 (gender : feminine), type-species, by designation by Rathbun, 1900, *Hippa adactyla* Fabricius, 1787 (Name No. 1497) ;
- (c) *Idotea* J. C. Fabricius, 1798 (gender : feminine), type-species, by designation under the plenary powers in (1)(c) above, *Cymothoa emarginata* Fabricius, 1793 (Name No. 1498) ;
- (d) *Jaera* [Leach, 1814] (gender : feminine), type-species, by monotypy, *Jaera albifrons* [Leach, 1814] (Name No. 1499) ;
- (e) *Mesidotea* Richardson, 1905 (gender : feminine), type-species, by designation by Gurjanova, 1936, *Oniscus entomon* Linnaeus, 1758 (Name No. 1500).

(3) The following specific names are hereby placed on the Official List of Specific Names in Zoology with the Name Numbers specified :

- (a) *adactyla* J. C. Fabricius, 1787, as published in the binomen *Hippa adactyla* (type-species of *Hippa* J. C. Fabricius, 1787) (Name No. 1852) ;
- (b) *albifrons* [Leach, 1814], as published in the binomen *Jaera albifrons* (type-species of *Jaera* [Leach, 1814]) (Name No. 1853) ;
- (c) *balthicus* Pallas, 1772, as published in the binomen *Oniscus balthicus* (Name No. 1854) ;
- (d) *emarginata* J. C. Fabricius, 1793, as published in the binomen *Cymothoa emarginata* (type-species of *Idotea* J. C. Fabricius, 1798) (Name No. 1855) ;

- (e) *emeritus* Linnaeus, 1767, as published in the binomen *Cancer emeritus*, as defined by the lectotype designated by Holthuis, 1960 (type-species of *Emerita* Scopoli, 1777) (Name No. 1856);
- (f) *entomon* Linnaeus, 1758, as published in the binomen *Oniscus entomon* (type-species of *Mesidotea* Richardson, 1905) (Name No. 1857);
- (g) *neglecta* Sars, 1897, as published in the binomen *Idothea* (sic) *neglecta* (Name No. 1858).

(4) The following generic names are hereby placed on the Official Index of Rejected and Invalid Generic Names in Zoology with the Name Numbers specified :

- (a) *Emerita* Gronovius, 1764 (published in a work rejected for nomenclatorial purposes) (Name No. 1571);
- (b) *Emerita* Meuschen, 1778 (published in a work rejected for nomenclatorial purposes) (Name No. 1572);
- (c) *Emerita* Meuschen, 1781 (published in a work rejected for nomenclatorial purposes) (Name No. 1573);
- (d) *Idotaea* Dana, 1849 (an incorrect spelling for *Idotea* Fabricius, 1798) (Name No. 1574);
- (e) *Idotea* Weber, 1795 (as suppressed under the plenary powers in (1)(a) above) (Name No. 1575);
- (f) *Idothea* Fabricius, 1796 (a nomen nudum) (Name No. 1576);
- (g) *Idothea* Fabricius, 1799 (an incorrect spelling for *Idotea* Fabricius, 1798) (Name No. 1577);
- (h) *Idothea* Richardson, 1905 (an unjustified emendation of *Idotea* Fabricius, 1798) (Name No. 1578);
- (i) *Saduria* Adams, 1852 (as suppressed under the plenary powers in (1)(b)(ii) above) (Name No. 1579);
- (j) *Siduria* Milne-Edwards, 1840 (a vernacular name and a nomen nudum) (Name No. 1580);
- (k) *Saduria* White, 1847 (unavailable because published in a synonymy) (Name No. 1581);
- (l) *Mesidotea* Stephensen, 1913 (an incorrect spelling for *Mesidotea* Richardson, 1905) (Name No. 1582);
- (m) *Idotaega* Lockington, 1877 (as suppressed under the plenary powers in (1)(b)(iii) above) (Name No. 1583).

(5) The following specific names are hereby placed on the Official Index of Rejected and Invalid Specific Names in Zoology with the Name Numbers specified :

- (a) *marinus* Linnaeus, 1758, as published in the binomen *Oniscus marinus* (as suppressed under the plenary powers in (1)(b)(i) above) (Name No. 718);
- (b) *marinus* O. Fabricius, 1780, as published in the binomen *Oniscus marinus* (an alleged but non-existent name) (Name No. 719);
- (c) *eniomon* Gurjanova, 1936, as published in the binomen *Mesidotea* (sic) *eniomon* (an incorrect spelling for *entomon*, *Oniscus*, Linnaeus, 1758) (Name No. 720).

(6) The following family-group names are hereby placed on the Official List of Family-Group Names in Zoology with the Name Numbers specified :

- (a) HIPPIDAE (correction of HIPPIDES) Latreille, 1825 (type-genus *Hippa* Fabricius, 1787) (Name No. 330);
 - (b) IDOTEIDAE (correction of IDOTEADAE) Samouelle, 1819 (type-genus *Idotea* Fabricius, 1798) (Name No. 331);
 - (c) MESIDOTEINI Racovitza & Sevastos, 1910 (type-genus *Mesidotea* Richardson, 1905) (Name No. 332).
- (7) The following family-group names are hereby placed on the Official Index of Rejected and Invalid Family-Group Names in Zoology with the Name Numbers specified:
- (a) HIPPIDES Latreille, 1825 (type-genus *Hippa* Fabricius, 1787) (an incorrect original spelling for HIPPIDAE) (Name No. 361);
 - (b) IDOTEADAE Samouelle, 1819 (type-genus *Idotea* Fabricius, 1798) (an incorrect original spelling for IDOTEIDAE) (Name No. 362).

HISTORY OF THE CASE (Z.N.(S.) 412)

The proposal to validate the generic name *Idotea* Fabricius was first submitted to the Secretary of the Commission by Dr. Poul Heegaard in 1949. Information supplied by Dr. Heegaard and by Dr. L. B. Holthuis was united in a joint application which was sent to the printer on 14 July 1959 and was published on 8 April 1960 in *Bull. zool. Nomencl.* **17** : 178-184. Public Notice of the possible use of the plenary powers in the present case was given in the same part of the *Bulletin* as well as to the other prescribed serial publications (*Bull. zool. Nomencl.* **4** : 51-56). A number of comments were received and a full account of these is given in the following Secretary's Note which was sent to Commissioners with Voting Paper (61)34:—

"The proposal by Heegaard and Holthuis was published in *Bull. zool. Nomencl.* **17** : 178-184. All comments on the case have supported the proposals made by those authors except on one point, on which opinions have been divided.

"2. First, Dr. Henning Lemche wrote (26.iv.60) to the Secretary of the Commission complaining about the proposed sinking of the generic name *Mesidotea* Richardson, 1905, as a synonym of *Saduria* Adams, 1852. Dr. Lemche later (25.vii.60) wrote making definite proposals that the name *Saduria* should be suppressed under the plenary powers in order to conserve *Mesidotea* (see *Bull. zool. Nomencl.* **18** : 64).

"3. On 2.vi.60 Dr. Thomas E. Bowman of the U.S.A. National Museum wrote in support of the application as follows:

'I wish to support the proposal of Heegaard and Holthuis regarding the name *Idotea* and matters connected therewith. Acceptance of their application would certainly be in the interests of nomenclatural stability.

'In particular the generic name *Mesidotea* Richardson should give way to its earliest synonym *Saduria* Adams, in accordance with the law of priority. It may be objected that *Mesidotea* is widely used in works dealing with the Arctic marine fauna, but use of the name *Saduria* is becoming more common; it is used throughout a recent comprehensive two volume work on crustacean physiology (T. H. Waterman, editor; *The physiology of Crustacea*; vol. 1, 670 pp., vol. 2, 510 pp.; Academic Press, New York, 1960).

'If the Commission should rule in favour of *Saduria*, the subfamily name MESIDOTEINAE Racovitza and Sevastos, 1910, originally spelled MESIDOTEINI (*Arch. Zool. Exp. Gén.* (5) 6 : 194) should be added to the Official Index, and the new name SADURINAE placed on the Official List.

'With regard to the selection of *Oniscus entomon* L. as the type-species of *Mesidotea*, this appears to have been done already, although I cannot give the original citation. Gurjanova, 1936 (*Fauna of the U.S.S.R.* 7(3) : 145) gives as the type of the genus *Mesidothea* (sic), *M. entomon* (L.), misprinted as *eniomon*. The name *Mesidothea* appears to be an erroneous spelling of *Mesidotea*, but I have not been able to determine with certainty when this incorrect form was first used. Stephensen, 1913 (*Medd. om Grønland*, 22 : 235) may have been the first author; he gave *Mesidothea Sabinei* Richardson, 1905 as a synonym of *Glyptonotus Sabinei*, Kr. *Mesidothea* should be added to the Official Index.

'If the Commission should rule to retain *Mesidotea*, the two senior synonyms *Saduria* Adams and *Idotaega* Lockington, 1877 (*Proc. Calif. Acad. Sci.* 7(1) : 45) type-species by monotypy, *I. longicauda*, would have to be placed on the Official Index. No action concerning *Idotaega* would be necessary if the Commission would follow the simpler procedure of adhering to the law of priority as recommended by Heegaard and Holthuis in their application.'

"To this letter Dr. Holthuis replied (22.vi.60) :

'I have indeed overlooked both the existence of the family-group name MESIDOTEINI Racovitza & Sevastos, 1910, and the type-selection of *Oniscus entomon* L. as the type of *Mesidotea* Richardson, 1905. The latter type selection very easily can be put in the place of the one we had, but with the subfamily it is a different matter. In order to make the name SADURINAE (not SADURINAE) the legal name for the subfamily containing the genus *Saduria* Adams, the older name MESIDOTEINAE has to be suppressed under the plenary powers.'

"4. Dr. Holthuis's reply to Dr. Lemche's letter of 25.vii.60 mentioned in para. 2 above was published in *Bull. zool. Nomencl.* 18 : 98, together with Dr. Lemche's further proposal for dealing with a further senior synonym of *Mesidotea*, and a comment, also supporting the conservation of *Mesidotea* from Dr. Torben Wolff.

"5. Since these comments were printed the following letters have been received :

"Prof. T. Jaczewski (13.v.61) :

'In connection with the case of the generic name *Mesidotea* Richardson, 1905, I wish to support decidedly the proposed use of the plenary powers to validate this generic name under the suppression of the generic names *Saduria* Adams, 1852, and *Idotaega* Lockington, 1877. In the countries around the Baltic Sea the name *Mesidotea* Richardson is in general and well established use not only among zoologists, but also among ecologists, fishery biologists etc. I am enclosing for your information a copy of a booklet by Prof. Dr. M. Bogucki dealing with *Mesidotea entomon* (L.) and published here in 1956 for the use of students, teachers, fishery biologists,

and persons interested in biology in general. The invalid spelling *Mesidothea* used in this booklet, and found in many other publications should be placed on the Official Index.'

"Dr. Per Brinck (2.vi.61) :

'*Mesidotea entomon* is an often quoted name in literature on glacial relics, particularly so in the lakes around the Baltic (Denmark, Germany, Poland, Lithuania, Latvia, Esthonia, Finland and Sweden). In textbooks as in high school and university teaching it is a well-known species frequently dealt with as a characteristic element of certain stages or types of lakes or brackish seas in the North. It would be confusing to change the generic name of this animal for a name which has been used very rarely in this century.

'Therefore I support Dr. Lemche's proposal which means that *Mesidotea* be preserved as the generic name of *Oniscus entomon* Linnaeus, 1758.'

"Dr. Holthuis (27.vi.61) :

'Dr. Thomas E. Bowman of the U.S. National Museum in Washington D.C., drew my attention to two uses of the name *Saduria* before the usage by Adams, 1852. *Saduria* being a manuscript name of W. E. Leach, figured with material in the British Museum and thereby became known to some carcinologists. The first use of the name is by H. Milne Edwards (1840, *Hist. nat. Crust.* 3 : 126) who misspelled it *Siduria* and used it in the following sentence : "Nous réunissons donc ici, aux Idotées ordinaires, les Sténosomes (1) et les *Siduria* (2) de Leach, ainsi que les Leptosomes . . ." Footnote (2) says : "(2) Leach, Collection du musée britannique". The name *Siduria* is used nowhere else by H. Milne Edwards ; it is thus a vernacular name and a nomen nudum. The name *Saduria* is used by White (1847, *List Crust. Brit. Mus.* : 94) as "*Saduria entomon*, *Leach. MSS.*" in the synonymy of "*Idotea Entomon*, *Latr.*" As this name is published in a synonymy it is not thereby made available. Both *Siduria* H. Milne Edwards, 1840, and *Saduria* White, 1847, should therefore be placed on the Official Index of Rejected and Invalid Generic Names in Zoology.'

"6. The Commission therefore has alternative proposals, before it, both requiring the use of the plenary powers. *Alternative A* (supported by Heegaard and Holthuis, Bowman) : is set out in *Bull. zool. Nomencl.* 17 : 182-184 and it is suggested that the following proposals be added :

(4) (j) *Siduria* Milne-Edwards, 1840, a vernacular name and a nomen nudum ;

(k) *Saduria* White, 1847, unavailable because published in a synonymy ;

(l) *Mesidothea* Stephenson, 1913, an incorrect spelling for *Mesidotea* Richardson, 1905 ;

(5) (c) *eniomon* Gurjanova, 1936, as published in the binomen *Mesidothea* [sic] *eniomon* an incorrect spelling for *Oniscus entomon* Linnaeus, 1758 ;

(6) (c) *MESIDOTEINI* Racovitza & Sevastos, 1910 (type-genus *Mesidotea* Richardson, 1905).

Alternative B (supported by Lemche, Wolff, Jaczewski and Brinck) :

Proposals printed in *Bull. zool. Nomencl.* 17 : 182-184 and supplemented

as above to be amended as follows :

Add (1)(e) to suppress the generic name *Saduria* Adams, 1852, for the purposes of the Law of Priority but not for those of the Law of Homonymy ;

(1)(f) to rule that *Idotaega* Lockington, 1877, is not to be given priority over *Mesidotea* Richardson, 1905, by those zoologists who consider that *Idotaega longicauda* Lockington and *Oniscus entomon* Linnaeus belong to the same genus-group taxon ;

Substitute for (2)(e) *Mesidotea* Richardson, 1905 (gender : feminine), type-species, by designation by Gurjanova, 1936, *Oniscus entomon* Linnaeus, 1758 ;

Add (2) (f) *Idotaega* Lockington, 1877 (gender : feminine), type-species, by monotypy, *Idotaega longicauda* Lockington, 1877 ; (for use only by those zoologists who consider that *Idotaega longicauda* Lockington and *Oniscus entomon* Linnaeus belong to different genus-group taxa) ;

Substitute for (4) (i) *Saduria* Adams, 1852, suppressed under the plenary powers in (1)(c) above ;

Add (4) (m) *Idotaega* Lockington, 1877, an incorrect original spelling for *Idotaega* Lockington, 1877.

" 7. The crux of this matter is whether *Saduria*, under the rules, should prevail, or whether it should be set aside, under the plenary powers, in favour of *Mesidotea*. Other matters are consequential or supporting. There is evidence that *Mesidotea* is in fairly general use, none in favour of *Saduria* prior to 1960. Commissioners must ask themselves whether this particular point (*Saduria* or *Mesidotea*) is or is not of such importance that the Rules should be suspended in favour of the junior name.

" 8. Dr. Lemche's proposal (1(f)), designed to keep *Idotaega* available (though senior to, and an almost undoubted synonym of *Mesidotea*) appears peculiarly dangerous. It would seem far safer to put it on the Official Index, as otherwise it is a permanent threat to *Mesidotea*. Commissioners who disapprove of Dr. Lemche's proposal (in respect of *Idotaega*) are therefore now asked to inform the Secretary whether or not they agree that *Idotaega* be placed on the Official Index under the plenary powers.

" 9. Voting Paper (61)34 is therefore divided into two parts. In Part I Commissioners are asked to vote either for or against the use of the plenary powers in the present case. In Part II Commissioners who have voted affirmatively in Part I are asked to choose between Alternative A put forward by Heegaard & Holthuis and Alternative B put forward by Lemche (with the possible exception of the paragraph 1(f) to which attention is drawn in para. 8 of this report)."

DECISION OF THE COMMISSION

On 1 December 1961 the Members of the Commission were invited to vote under the Three-Month Rule on Voting Paper (61)34, Part 1, either for or against the use of the plenary powers in the present case. In part 2 of that Voting Paper Commissioners were invited to vote either for Alternative A (as set out in *Bull. zool. Nomencl.* 17 : 182-184, as supplemented in paragraph 6

of the accompanying Secretary's Note) or for Alternative B (as set out in *Bull. zool. Nomencl.* 17 : 182-184, as supplemented and amended in paragraphs 6 and 7 of the accompanying Secretary's Note). At the close of the prescribed Voting Period on 1 March 1962 the state of the voting was as follows :

Part 1. Affirmative Votes—twenty-three (23), received in the following order : Evans, Holthuis, Hering, Riley, Vokes, Mayr, Jaczewski, Obruchev, Alvarado, Kühnelt, Bonnet, Brinck, Munroe, Uchida, Lemche, Stoll, do Amaral, Key, Borchsenius, Tortonese, Mertens, Miller, Poll.

Negative Votes—none (0).

On leave of absence—two (2) : Bradley, Prantl.

Voting Papers not returned—two (2) : Boschma, Hemming.

Part 2. Votes for Alternative A :—ten (10) : Holthuis, Alvarado, Bonnet, Uchida, Stoll, Borchsenius, Tortonese, Mertens, Miller, Poll.

Votes for Alternative B :—thirteen (13) : Evans, Hering, Riley, Vokes, Mayr, Jaczewski, Obruchev, Kühnelt, Brinck, Munroe, Lemche, do Amaral, Key.

A majority of the Commissioners voting for Alternative B, expressed a preference for the suppression of *Idotaega*.

ORIGINAL REFERENCES

The following are the original references for names placed on Official Lists and Indexes by the Ruling given in the present Opinion :

adactyla, *Hippa*, J. C. Fabricius, 1787, *Mant. Ins.* 1 : 329

albifrons, *Jaera*, [Leach, 1814], Brewster's *Edinb. Ency.* 7(2) : 434

balthicus, *Oniscus*, Pallas, 1772, *Spicil. Zool.* (9) : 66

emarginata, *Cymothoa*, J. C. Fabricius, 1793, *Ent. syst.* 2 : 508

Emerita Gronovius, 1764, *Zoophyl. Gronov.* (2) : 234

Emerita Meuschen, 1778, *Mus. Gronov.* : 87

Emerita Meuschen, 1781, *Index Zoophyl. Gronov.* : (9)

Emerita Scopoli, 1777, *Introd. Hist. Nat.* : 405

emeritus, *Cancer*, Linnaeus, 1767, *Syst. Nat.* (ed. 12) 1(2) : 1055

eniomon, *Mesidothea*, Gurjanova, 1936, *Fauna of the USSR* 7(3) : 145

entomon, *Oniscus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) 1 : 636

Hippa J. C. Fabricius, 1787, *Mant. Ins.* 1 : 329

HIPPIDAE Latreille, 1825, *Fam. nat. Règne Anim.* : 275

HIPPIDES Latreille, 1825, an incorrect original spelling for HIPPIDAE q.v.

Idotaeca Dana, 1849, *Amer. J. Sci.* (2) 8 : 426

Idotaega Lockington, 1877, *Proc. Calif. Acad. nat. Sci.* 7 : 183

Idotea J. C. Fabricius, 1798, *Suppl. Ent. syst.* : 297, 302

Idotea Weber, 1795, *Nomencl. ent.* : 94

IDOTEADAE Samouelle, 1819, an incorrect original spelling for IDOTEIDAE q.v.

IDOTEIDAE Samouelle, 1819, *Entom. useful Compendium* : 106

Idothea J. C. Fabricius, 1796, *Index Ent. syst.* : 86

Idothea J. C. Fabricius, 1799, *Index alph. Suppl. Ent. syst.* : 27

Idothea Richardson, 1905, *Proc. biol. Soc. Washington* 18 : 9

Jaera [Leach, 1814], Brewster's *Edinb. Ency.* 7(2) : 434

- marinus*, *Oniscus*, O. Fabricius, 1780 [*Fauna Groenl.* : 252]
marinus, *Oniscus*, Linnaeus, 1758, *Syst. Nat.* (ed. 10) **1** : 637
Mesidotea Richardson, 1905, *Bull. U.S. nat. Mus.* **54** : 347
MESIDOTEINI Racovitza & Sevestos, 1910, *Arch. Zool. exp. gén.* (5) **6** : 194
Mesidothea Stephensen, 1913, *Medd. om Grøn.* **22** : 235
neglecta, *Idothea*, Sars, 1897, *Crust. Norway* **2**(5, 6) : 84
Saduria Adams, 1852, *Sutherland's J. Voy. Baffin Bay Barrow Strait* **2** : ccvii
Saduria White, 1847, *List. Crust. Brit. Mus.* : 94
Siduria H. Milne-Edwards, 1840, *Hist. nat. Crust.* **3** : 126

The following are the original references for the designation of type-species for two genera concerned in the present Ruling :

For *Hippa* Fabricius, 1787 : Rathbun, 1900, *Proc. U.S. nat. Mus.* **22** : 301

For *Mesidotea* Richardson, 1905 : Gurjanova, 1936, *Fauna of the USSR* **7**(3) : 145

The following is the original reference for the selection of a lectotype for a nominal species concerned in the present Ruling :

For *Cancer emeritus* Linnaeus, 1767 : Holthuis, 1960, *Bull. zool. Nomencl.* **17** : 182

CERTIFICATE

WE certify that the votes cast on Voting Paper (61)34 were cast as set out above, that the proposal set out as Alternative B in that Voting Paper has been duly adopted in an amended form under the plenary powers, and that the decision so taken, being the decision of the International Commission, is truly recorded in the present Opinion No. 643.

N. D. RILEY
Secretary

International Commission on Zoological Nomenclature

W. E. CHINA
Assistant Secretary
London
13 March 1962